Amendment in Reply to Final Office Action of January 12, 2009

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A rewritable optical data storage medium for high-speed recording by a focused radiation beam, said medium comprising a substrate carrying a stack of layers, wherein the stack comprises:
 - a substantially transparent first auxiliary layer I1,
- a substantially transparent second auxiliary layer I2 having a thickness $d_{\scriptscriptstyle 12}{<}10\text{nm}$,
- a recording layer of a phase-change material comprising a composition $Ge_xSn_ySb_{1-x-y}$, where 0.05<x<0.30 and 0.15<y<0.30, wherein the recording layer is directly on the second auxiliary layer I2 and is interposed between the first auxiliary layer I1 and the second auxiliary layer I2, and

a third auxiliary layer I3 with a thickness $d_{\rm I3}$ acting as a heat sink, wherein the second auxiliary layer I2 is interposed between the recording layer and the third auxiliary layer I3,

wherein $\lambda_{12}/d_{12}>5*10^8$ W m⁻² K⁻¹, where λ_{12} is a heat conduction coefficient of the second auxiliary layer I2.

- 2.(Currently Amended) The optical data storage medium as claimed in claim 1, wherein the second auxiliary layer I2 comprises $(ZnS)_{80}(SiO_2)_{20}$ and the thickness $d_{12}<10$ nm.
- 3.(Previously Presented) The optical data storage medium as claimed in claim 1, wherein the second auxiliary layer I2 comprises at least one selected from the group of Ge_3N_4 , Si_3N_4 , Al_2O_3 , Hf_xN_y , ITO $(In_2O_3:Sn)$ and Ta_2O_5 .
- 4.(Previously Presented) The optical data storage medium as claimed in claim 1, wherein the recording layer has a thickness $d_{\scriptscriptstyle p}$ which is smaller than 15 nm.

- 5. (Previously Presented) The optical data storage medium as claimed in claim 1, wherein the recording layer additionally comprises at least one of In, Ag and Cu.
- 6. (Previously Presented) The optical data storage medium as claimed in claim 5, wherein the at least one In, Ag and Cu is present in a concentration up to 10 %.
- 7. (Previously Presented) The optical data storage medium as claimed in claim 1, wherein the third auxiliary layer I3 comprises Ag.
- 8.(Previously Presented) The optical data storage medium as claimed in claim 7, wherein the thickness $d_{\rm I3}$ of the third auxiliary layer I3 is at least 150 nm.
- 9. (Previously Presented) The optical data storage medium as claimed in claim 1, further comprising a substantially transparent fourth auxiliary layer I4 between the third auxiliary layer I3 and

the second auxiliary layer I2 for screening the third auxiliary layer I3 from a chemical influence of the second auxiliary layer I2.

- 10.(Previously Presented) The optical data storage medium as claimed in claim 9, wherein the fourth auxiliary layer I4 comprises at least one of Si_3N_4 and Ge_3N_4 .
- 11.(Previously Presented) The optical data storage medium as claimed in claim 10, wherein the fourth auxiliary layer I4 has a thickness $d_{\text{I4}} \leq 3\ \text{nm}.$

Claim 12 (Canceled)